

**From:** [Miller, Gary](#)  
**To:** [sjones@galvbay.org](mailto:sjones@galvbay.org)  
**Cc:** [Walters, Donn](#); [Sanchez, Carlos](#)  
**Subject:** RE: What do the dioxin monitors on the cap say?  
**Date:** Friday, February 07, 2014 9:47:35 AM  
**Attachments:** [Fig 2-14 -- Cap Diffusion Sampling Locations from San Jacinto RI Report Vol 1 May 2013.pdf](#)  
[Fig 5-23 -- Cap Diffusion Sampler Diagram from San Jacinto RI Report Vol 1 May 2013.pdf](#)

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Yes; the monitors were installed for several months in 2012. It's a method that was developed by the University of Texas – UT also did the analysis for San Jacinto. The sampling is described starting in Section 5.3, p. 5-49 of the Remedial Investigation Report on the EPA San Jacinto web site. Samplers were installed at 14 locations in the cap as shown in the attached figure. Each location had 3 samples (bottom, middle, and top of cap). The other attachment above is a diagram of the samplers in the cap.

Table 5-20 of the RI Report shows the results – the dioxin results were all below the detection limits; the furan results were below detection in 47 of the 50 samples. The 3 furan detections (all in sample location #008 – located in eastern cell) were low - less than 13.2 pico grams ( $10^{-12}$  grams) (results are “estimated” – meaning it was detected but concentration was too low to get an accurate result). Also, the sample above the cap in the water at the #008 location did not detect any dioxin or furan.

Calculating a water concentration from the sampler measurements is covered on p. 5-53 – the result is the water concentration within the cap (based on sample #008 – the only detection) is less than 0.01 pg/L TEQ. This result is less than the TMDL surface water measurements near the waste pits of between 0.02 & 0.26 pg/L measured before the cap was installed.

The bottom line is that the cap is not leaking.

Please let me know if you would like to discuss this further.

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**From:** Scott Jones [<mailto:sjones@galvbay.org>]  
**Sent:** Tuesday, February 04, 2014 4:07 PM  
**To:** Miller, Gary; Leos, Valmichael; Walters, Donn  
**Cc:** Jennifer Ronk  
**Subject:** What do the dioxin monitors on the cap say?  
**Importance:** High

Hello Gary, Valmichael, and Donn-  
Do y'all have any data from the dioxin monitors you placed on the cap? Are they called diffuser monitors?



9667876

Laypeople are assuming that dioxins are leaking, so this data may shed some light.

Thanks-  
Scott

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